

FCC ID: 2BSCL-2159

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.405	6.39	4.36	6±1	7.00	5.01	<5	1.55449	3.00	YES
	2.44	3.82	2.41	3±1	4.00	2.51	<5	0.78474	3.00	YES
	2.475	3.53	2.25	3±1	4.00	2.51	<5	0.79035	3.00	YES

Note: $2405\text{MHz}(\text{dbm}) = \text{dbuv}/\text{m} - 95.2 = 103.59 - 95.2 = 8.39\text{dBm}(\text{EIRP})$, so the conduct peak power $= 8.39 - 2 = 6.39\text{dBm}$

$2440\text{MHz}(\text{dbm}) = \text{dbuv}/\text{m} - 95.2 = 101.02 - 95.2 = 5.82\text{dBm}(\text{EIRP})$, so the conduct peak power $= 5.82 - 2 = 3.82\text{dBm}$

$2475\text{MHz}(\text{dbm}) = \text{dbuv}/\text{m} - 95.2 = 100.73 - 95.2 = 3.53\text{dBm}(\text{EIRP})$, so the conduct peak power $= 3.53 - 2 = 3.53\text{dBm}$

Conclusion:

For the max result: $1.55449 \leq \text{FCC Limit } 3.0$ for 1g SAR.